

WHAT IS CLAIMED IS:

1. An attachment system for securing a rod member in a mounting opening of a constructional component (44; 74; 97), comprising a receiving sleeve (5; 37; 64; 73; 93) for receiving the rod member (23; 40) and having engagement means (24.1; 24.2; 49.1; 49.2; 69.1; 69.20 98.1; 98.2) for engaging the rod member (23; 40); and an actuation member (4; 35; 62; 72; 81; 92) connected with the receiving sleeve (5; 37; 64; 73; 93) for substantially radially displacing the engagement means (24.1; 24.2; 49.1; 49.2; 69.1; 69.2; 98.1; 98.2) from a first position in which the rod member is received in the receiving sleeve (5; 37; 64; 73; 93), to a second position in which the rod member is locked in the receiving sleeve.

2. An attachment system according to Claim 1, wherein the receiving sleeve (5; 37; 64; 73; 93) has at least one adjusting surface (11.1; 11.2; 39; 95), and the actuation member (4; 35; 72; 81; 92) has at least one actuation surface (12.1; 12.2; 36; 94) engageable with the at least one adjusting surface (11.1; 11.2; 39; 95) for inducing a substantially radial displacement of the engagement means (24.1; 24.2; 49.1; 49.2; 69.1; 69.2; 98.1; 98.2) of the

receiving sleeve (5; 37; 64; 73; 93) from the first position thereof to the second position thereof.

3. An attachment system according to Claim 1, wherein the actuation member (4; 35; 62; 72; 81) is displaceable parallel to the longitudinal axis of the receiving sleeve (5; 37; 64; 73).

4. An attachment system according to Claim 1 further comprising a rear engagement member (2; 42) displaceable through the mounting opening of the constructional component (21; 44; 74; 97) for engaging the constructional component (44; 74; 97) from behind.

5. An attachment system according to Claim 4, wherein the engagement member (2) engages holding elements (22.1; 22.2) provided on the constructional component (21).

6. An attachment system according to Claim 4, wherein the receiving sleeve has, at an end thereof facing in a setting direction of the attachment system, at least one holding element (6; 75.1; 75.2) for engaging from behind at

least one of the constructional component (74) and the rear engagement member (2; 42).

7. An attachment system according to Claim 1 further comprising a stop (3; 32; 63; 76; 82) for engaging an end surface of the constructional component.

8. An attachment system according to Claim 7, wherein the stop (3) engages mounting opening limiting edges of the end surface of the constructional component (21).

9. An attachment system according to Claim 7, wherein the stop (3) has a thread (15), and the actuation member (4) has a thread (14) cooperating with the stop thread (15) for axially displacing the actuation member (4).

10. An attachment system according to Claim 7, wherein the stop (32; 63; 76; 82) has a curved profile, and the actuation member (35; 62; 72; 81) has a curved profile (34.1; 34.2; 34.3; 83) cooperating with the stop curved profile (33.1; 33.2; 33.3; 84) for axially displacing the actuation member.

11. An attachment system according to Claim 2, wherein at least one of the adjusting surface (39; 95) of the receiving sleeve (37; 93) and the actuation surface (36; 94) of the actuation member (35; 92) is formed as at least one of ascending surface and sloping surface.

12. An attachment system according to Claim 11, wherein the at least one of ascending surface and sloping surface is formed as a spiral surface.

13. An attachment surface according to Claim 2, wherein at least one of the adjusting surface (11.1; 11.2) of the receiving sleeve (5) and the actuation surface (12.1; 12.2) of the actuation member (4) comprises an inclined surface.

14. An attachment system according to Claim 13, wherein both the adjusting surface (11.1; 11.2) of the receiving sleeve (5) and the actuation surface (12.1; 12.2) are formed as inclined surfaces complementary to each other for converting an axial displacement of the actuation member (4) in the substantially radial displacement of the engagement means (24.1; 24.2) of the receiving sleeve (5).

15. An attachment system according to Claim 1, wherein the actuation member (4; 35; 62; 72; 81; 92) is provided with torque transmitting means.

16. An attachment system according to Claim 15, wherein the actuation member (4; 35; 62; 72; 81; 92) is arranged outside of the receiving sleeve (5; 37; 64; 73; 93).

17. An attachment system according to Claim 1, wherein the receiving sleeve (5; 37; 73; 93) is formed as a one-piece part and includes at least one slot (7.1; 7.2) extending in the setting direction of the attachment system (1; 31; 71; 91), and at least one springy web (8.1).

18. An attachment system according to Claim 17, further comprising spring means (16) for retaining the receiving sleeve (5; 37; 73; 93) in the first position of the engaging means thereof.

19. An attachment system according to Claim 1 wherein the receiving sleeve (64) is formed of at least two parts (65.1; 65.2) spaced by at least one slot (68.1) and includes at least one spring element (67) for connecting the parts (65.1, 65.2)

20. An attachment system according to Claim 19, wherein the stop (3; 32; 63; 76; 82) has at least one locking element (13.1) engageable with the at least one slot (68.1) for retaining elements of the attachment system (1; 31; 61; 71; 91) against rotation relative to each other.

21. An attachment system according to Claim 4, wherein the receiving sleeve is formed of at least two parts spaced by at least one slot and includes at least one spring element for connecting the parts.

22. An attachment system according to Claim 21, wherein at least one of the stop and the rear engagement member has at least one locking element engageable with the at least one slot for retaining element of the attachment system together.